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HEWLETT PACKARD Q9H67A

Aruba AP-514 802.11ax Wireless Access Point User Manual

Model: Q9H67A (APIN0514)

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your Aruba AP-514 802.11ax Wireless Access Point. The Aruba AP-514 is designed to deliver high-performance wireless access for mobile and IoT devices in dense environments, leveraging 802.11ax technology for enhanced efficiency and data rates.

2. Product Overview

The Aruba AP-514 is an advanced 802.11ax (Wi-Fi 6) wireless access point supporting dual-band operation (2.4 GHz and 5 GHz) with MIMO and Beamforming technologies. It offers an aggregate peak data rate of 5.4 Gbps, making it suitable for high-density deployments.

Figure 1: Rear view of the Aruba AP-514 Wireless Access Point. This image displays the various ports and identification labels on the back of the device, including the console port, USB port, Ethernet ports, and power input.

2.1 Key Features

- 802.11ax (Wi-Fi 6) standard for high efficiency and performance.
- Dual-band support: 2.4 GHz and 5 GHz.
- Multi-user MIMO (MU-MIMO) and OFDMA for simultaneous client service.
- Beamforming technology for improved signal quality.
- Multiple mounting options: Ceiling Mountable, Wall Mountable.

2.2 Ports and Indicators

- **Console Port:** Micro-USB port for local management and configuration.
- **USB Port:** For future expansion or specific accessories.
- **Network Ports (RJ-45):** Two Ethernet ports (E0, E1) for network connectivity and Power over Ethernet (PoE) input.
- **DC Power Input:** 12V, 1.8A for external power adapter (if PoE is not used).
- **Security Slot:** For physical security locking mechanisms.

3. Setup

Follow these steps for initial setup of your Aruba AP-514 access point.

3.1 Mounting the Access Point

The AP-514 can be mounted on a ceiling or wall. Ensure the mounting surface is secure and can support the device's weight. Use appropriate mounting hardware (not included) for your specific installation environment.

1. Select a suitable location for optimal wireless coverage.
2. Attach the mounting bracket (if applicable) to the chosen surface.
3. Secure the access point to the mounting bracket.

3.2 Connecting Power and Network

The AP-514 can be powered via Power over Ethernet (PoE) through its RJ-45 network ports or by an external DC power adapter.

1. **PoE Connection:** Connect an Ethernet cable from a PoE-enabled switch or injector to either of the RJ-45 network ports (E0 or E1) on the access point.
2. **DC Power Connection:** If not using PoE, connect a 12V, 1.8A DC power adapter (sold separately) to the DC power input port.
3. Connect additional Ethernet cables from your network infrastructure to the remaining RJ-45 ports as needed.

3.3 Initial Configuration

After powering on, the access point will boot up. Initial configuration typically involves connecting to the console port using a micro-USB cable and a terminal emulator, or through a network-based management interface if the device obtains an IP address. Refer to the Aruba documentation for detailed software configuration steps.

4. Operating Instructions

Once configured, the Aruba AP-514 operates as a wireless access point, broadcasting Wi-Fi networks (SSIDs) for client devices to connect to. Its 802.11ax capabilities ensure efficient handling of multiple devices and high data throughput.

- Ensure the access point is powered on and connected to your network.
- Verify that the configured SSIDs are broadcasting on both 2.4 GHz and 5 GHz bands.
- Client devices can connect to the wireless network using the provided SSID and password.
- Monitor the access point's status through your network management system for optimal performance.

5. Maintenance

Regular maintenance helps ensure the longevity and optimal performance of your access point.

- **Cleaning:** Periodically clean the exterior of the access point with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- **Firmware Updates:** Keep the access point's firmware updated to the latest version provided by Hewlett Packard Enterprise to benefit from new features, security patches, and performance improvements.

- **Environmental Conditions:** Ensure the access point operates within its specified temperature and humidity ranges to prevent damage.
- **Physical Inspection:** Regularly check all cable connections for secure fit and inspect the device for any signs of physical damage.

6. Troubleshooting

If you encounter issues with your Aruba AP-514, consider the following basic troubleshooting steps:

- **No Power:** Verify that the power source (PoE switch/injector or DC adapter) is functioning correctly and connected securely.
- **No Network Connectivity:** Check Ethernet cable connections to the network ports. Ensure the upstream network devices (switch, router) are operational.
- **Poor Wi-Fi Performance:** Check for potential sources of interference. Ensure the access point is optimally placed. Verify firmware is up to date.
- **Cannot Access Management Interface:** Confirm the access point has obtained an IP address and that your management station is on the same network or has proper routing.
- **Factory Reset:** As a last resort, a factory reset may resolve persistent issues. Refer to the official documentation for the specific procedure, as this will erase all configurations.

For advanced troubleshooting or issues not resolved by these steps, contact Hewlett Packard Enterprise support.

7. Specifications

Model Number	Q9H67A (APIN0514)
Wireless Standard	802.11ax
Frequency Bands	2.4 GHz, 5 GHz
Max Data Rate (Aggregate)	5.4 Gbps
MIMO Configuration	4x4 (5GHz), 2x2 (2.4GHz)
Ports	2 x Network (RJ-45), 1 x USB, 1 x Console (Micro-USB)
Power Input	PoE or 12V DC, 1.8A
Product Dimensions	7.87 x 7.87 x 1.81 inches
Item Weight	1.79 pounds
Manufacturer	Hewlett Packard Enterprise
FCC ID	Q9DAPIN0514515
IC	4675A-APIN0514515
Date First Available	November 17, 2018

8. Warranty and Support

The Aruba AP-514 Wireless Access Point is covered by a standard manufacturer's warranty provided by

Hewlett Packard Enterprise. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Hewlett Packard Enterprise website.

For technical support, product inquiries, or warranty claims, please contact Hewlett Packard Enterprise customer service or visit their support portal. Ensure you have your product model number (Q9H67A) and serial number (SN: CNGJKD003F) available when seeking support.